

From: [Lisa Kusnierz](#)
To: [Schade, Pete](#)
Subject: Re: FW: Stormwater discussions
Date: 02/01/2011 02:41 PM

Any of the proposed dates work for me.

Did you get my response about the metals meeting? I added a comment but wasn't sure how it goes through having different mail/calendar clients.

Lisa Kusnierz
U.S. EPA, Montana Office
10 West 15th Street, Suite 3200
Helena, MT 59626
Kusnierz.Lisa@epa.gov
(406) 457-5001

▼ "Schade, Pete" ---02/01/2011 01:16:13 PM---Oops - forgot you

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From: "Schade, Pete" <PSchade@mt.gov>
To: Lisa Kusnierz/MO/R8/USEPA/US@EPA
Date: 02/01/2011 01:16 PM
Subject: FW: Stormwater discussions

Oops – forgot you

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[Pete Schade](#)
[\(406\) 444-6771](#)
[Senior TMDL Planner](#)
[Montana Department of Environmental Quality](#)

From: Schade, Pete
Sent: Tuesday, February 01, 2011 12:54 PM
To: Dustin Johnson (djohnson@bozeman.net); Alan English (Alan.english@gallatin.mt.gov); Tammy.Crone@gallatin.mt.gov; Makus, Erik; 'darkell@bozeman.net'; 'kristin gardner'
Cc: restoringrivers@yahoo.com; 'Sharlyn Gunderson-Izurieta'
Subject: Stormwater discussions

Hi Folks,

As you know, DEQ will be developing some stormwater modeling and assessment tools for TMDL development in the Lower Gallatin watershed.

As a component of the City of Bozeman's Stormwater Plan, HDR developed a rudimentary SWMM Model (see <http://www.epa.gov/ednnrmrl/models/swmm/>) for the City of Bozeman.

Rather than generate a new modeling tool to assess and evaluate potential stormwater contributions, DEQ will be building on the existing SWMM modeling to generate existing stormwater loading conditions and to develop potential future stormwater delivery scenarios or management options. Ideally, the SWMM model will be a tool that the City of Bozeman can use to manage and evaluate SW loads to local streams.

At this point, what we've done is to take the modeling information provided to us by HDR and incorporate it into the public version of the SWMM model. Basically, it's been a reformatting and data control exercise to get the information populated in the non-proprietary version of SWMM. Now we are ready to begin making decisions regarding Event-Mean Concentration (EMC) values, existing BMPs and stormwater structures and routing devices, seasonal BMPs employed, delineating land use areas, incorporating local stormwater/development guidance, etc.

The idea is to establish an existing condition and estimate stormwater loads (sediment, e.coli, nutrients) for that condition, and to establish a 'desired' condition, or a condition that reflects water quality where applicable stormwater BMPs/development guidelines, etc have been employed in an effort to reduce stormwater pollutants and flows. Of course, both these conditions rely on a variety of assumptions that must be 'plugged into' the model, and we hope to enlist your technical expertise and local knowledge of the system to set up appropriate assumptions.

MEETING:

Id like to setup a meeting for sometime in late Feb or early March to discuss the SWMM model. Perhaps we could meet at the city offices or the GLWQPD?

I propose Feb 23-25 or the first week in March (March 1-3). Please let me know of your availability during these dates , and we can try and nail a date down.

Thanks!

Pete

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Pete Schade
(406) 444-6771
Senior TMDL Planner
Montana Department of Environmental Quality